



# US Navy Civil Engineer Corps Collegiate Corner



September 2016

Collegiates and OCS Selectees,

We hope that everyone is getting settled back into school and/or are getting well prepared for their upcoming OCS date. Please continue to focus on being ambassadors for the U.S. Navy and Civil Engineer Corps. As you speak to your fellow students, faculty, and friends, you may be the only representation that they have of what it is to be chosen as a future naval officer. Carry yourself with honor and positively affect others in your life towards their goals!

All of us on the CEC Accessions Team are here to support you with any questions or comments you may have along the way. We look forward to you joining the ranks!

- CEC Accessions Team

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## LEADERSHIP TRAITS

Previously, you learned about the Marine Corps leadership traits and the qualities all leaders should embody and aspire to. Now, you will expand your knowledge to the Principles of Naval Leadership. I challenge you to take what you are learning and apply it to your leadership roles in your project assignments, student organizations, and community connections.

### Make sound and timely decisions

- Developing a logical and orderly thought process by practicing objective estimates of the situation.
- When time and situation permits, planning for every possible event that can reasonably be foreseen.
- Considering the advice and suggestions of your subordinates before making decisions.
- Making sure your people are familiar with your policies and plans.
- Considering the effects of your decisions on all members of your unit.

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## PROFESSIONAL ACCREDITATION

What does it take to become a licensed engineer or architect? If you don't know the process or haven't started yet, now is the best time to start! Taking and passing the Fundamentals of Engineering Exam as well as, after requisite experience, the Professional Engineer Exam are major milestones for our community and for your career. Look up the requirements at <http://ncees.org/engineering/fe/> & <http://ncees.org/licensure/> for engineers and <http://www.ncarb.org/Becoming-an-Architect.aspx> for architects.



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## ACCESSIONS OFFICER FOCUS



We are happy to welcome aboard LT Kristina Allen as the new CEC South Accessions Officer. LT Allen checked onboard NAVFAC LANT in Norfolk, VA as the South Accessions Officer at the end of July 2016.

Lieutenant Allen received her Bachelor of Science in Geological Engineering in December 2000 and Masters of Science in Environmental Engineering in December 2001, both from Missouri University of Science and Technology.

Her first duty station was with Naval Mobile Construction Battalion FOUR from October 2008 – November 2010 serving as Headquarters Company Platoon Commander, Charlie Company Platoon Commander, Headquarters Company Commander, and Materials Liaison Officer. She deployed with NMCB FOUR to Camp Arifjan, Kuwait and FOB Deh Dadi II, Afghanistan.

LT Allen then served as the Facility Manager for U.S. Naval Hospital Rota, Spain completing a variety of projects and supervising a staff of both Americans and Spanish local nationals.

In January 2013, she reported to FEAD Quantico as a Construction Manager overseeing \$114M in projects including the construction of the \$88M Senator John Warner Center for Advanced Military Studies and Brigadier General Simmons Research Center at Marine Corps University.

In November 2015, she reported to NAVFAC Washington as the FSC IPT Lead overseeing regional facility service contracts covering seven Public Works Departments before checking into the South Accessions role in July 2016.

Now that she is a part of the Accessions Team, she will be reaching out to you all and the other South accessions points of contact to introduce herself. Welcome LT Allen!



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## CAREER FOCUS

This month we will discuss the CEC Graduate Education Program.

Background: As the facilities and engineering experts for the Navy and Marine Corps, the majority of our more senior billets/jobs (O4-O6) require our officers to have completed a graduate-level facilities/engineering degree. As such, as you progress through your career and are career-minded about service to the CEC, as well as having been competitive in your performance through your O1-O3 assignments, you will be afforded the opportunity to attend fully-funded graduate school. Below is a map of all currently approved graduate schools for the CEC, as well as the curriculums that are approved to be taken for your graduate education:



470A	Construction	470I	Architecture and Urban Design
470B	Environmental	471	Electrical Engineering
470C	Geotechnical	472	Ocean Engineering
470D	Public Works	473A	Mechanical Engineering - Shore Facilities
470E	Structural	473B	Mechanical Engineering - Energy Option
470F	Urban, Regional or City Planning	837	NPS Financial Management
470G	Facilities Financial Management	838	NPS Financial Management Energy Focus
470H	Engineering Management	536	NPS Mechanical Engineering

### Eligibility

- All Officers with strong career potential
- Proven performance
- Have your EIT licensure, have obtained your Seabee Combat Warfare (SCW) pin, have obtained Acquisition Level I (ACQ I) in contracting



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## Process

- Take GRE as a junior Lieutenant (O3)
- Work with your detailer to request primary and alternate desired schools
- Must take into consideration “cost of move” to desired school, as well as “tuition” of desired school to make best use of funding (hence why Primary/Alternate schools must be requested based upon available funding)

Focus Areas: Although the curriculums listed above each represent a different technical aspect of our Corps that you can select to pursue, our Chief of Civil Engineers, RADM Bret J. Muilenburg, has established the following focus areas that will be achieved or met via coursework in each curriculum, regardless of curriculum choice/title:

- Public Works
- Energy & Sustainable Resources
- Cybersecurity Infrastructure

The neat part of graduate school: There are several neat benefits of attending graduate school:

- Your full time job during graduate school is to attend school (which can range from 9 to 24 months and are based upon the curriculum you choose). As such, you are not required to:
  - Wear a military uniform (unless attending an official military function)
  - Do a daily drill or muster with any unit (however you will have to periodically report to the local NROTC unit for administrative purposes)
- You will still be given your full pay and allowances such as your basic pay, BAH, and other qualifying allowances
  - Note that you are still an active-duty/full-time officer so you will continue to have TRICARE, on-base access, commissary and exchange shopping privileges, as well as all other privileges associated with being an active-duty member of the armed forces
- The tuition and fee costs associated with your schooling (minus books and other minor expenses) are paid for by the Navy
- You will follow the school’s calendar and the schedule of your classes
- You will be able to grow your technical expertise, as well as grow professionally and personally through your experience at school, in order to come back and contribute to the CEC
- You will still have to:
  - Maintain all conduct that is expected of an officer in the United States Navy
  - Maintain academic excellence/GPA levels
  - Remain an ambassador, spokesman, and role model for the United States Navy to your fellow students
  - Maintain proper military bearing and standards
  - Maintain your physical fitness and take the bi-annual PFA



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- As well as all other additional requirements associated with being an active-duty naval officer

**Additional Information:** In order to help guide you through the graduate school process, the CEC publishes an annual “CEC Graduate School Handbook” that can be found on the NAVFAC portal site (don’t worry, you will get access to this site once you have commissioned and are assigned to your unit). This handbook breaks down all of the administrative requirements associated with applying to and attending graduate school as well as a breakdown of all of the requirements that each curriculum entails. As this is updated annually, schools are added or removed, as well as new curriculums are added or removed, based upon changes in the educational landscape and priorities of the CEC. As an example of what is required for each curriculum, below is the requirements under the “470D Public Works” curriculum:

Civil Engineering, Public Works Option (470D)
<b>Subspecialty Obtainable:</b> 1101P - Facilities Engineering
<b>Applicable Designator:</b> 5100
<b>Major Code:</b> 4757
<b>Educational Background:</b> ABET accredited baccalaureate degree in civil engineering or other ABET accredited engineering degree if acceptable to the civilian institution
<b>Degree Length:</b> 9 - 12 months
<b>Educational Skill Requirements:</b>
1. Understand the principles of and be able to organize, plan, direct, coordinate, and control activities where people, money, and materials are efficiently and economically combined to provide effective engineering, facilities, and infrastructure support services. Implicit is an understanding of the technical and managerial instruments available for proposing and implementing objectives, policies, and programs; policy analysis, program planning, and budgeting; accounting, evaluation, and control; and manpower planning. General knowledge of systems analysis problems solving models, network analysis, benefit cost analysis, and the role of systems analysis in public works/infrastructure decision making (Public Works/Infrastructure Management).
2. Knowledge of problems meeting the growing energy demand. Selection of energy sources and their corresponding advantages and disadvantages. (Energy Demand and Sources)
3. Understanding of cyber security fundamentals as they apply to the nation's critical infrastructure (focused on power /utility distribution grid control systems) to include knowledge and skills in computer network architecture and operations, an understanding of cyber-attack and exploitation methods, cyber system defense mechanisms, as well vulnerability and risk assessment abilities. (Cybersecurity of Critical Infrastructure Control Systems)
4. Proficiency in oral and written communications and ability to identify, research, and recommend alternatives to various engineering problems for presentation to both technical and non-technical managers. (Communication – Oral and Written)
5. Familiarity with solid waste management and water/wastewater distribution, treatment, and disposal systems. (Wastewater Treatment)
6. Working knowledge of utilities, including generation, distribution, and conservation techniques. (Utilities)
7. Understanding of labor relations and collective bargaining. (Labor Relations)
8. Understanding of basic fundamentals of urban planning, effective land use development, and general real estate concepts. (Urban Planning)
9. Basic understanding of facility energy conservation techniques and environmental regulatory concepts. (Facilities Energy Conservation)
10. At least one course which extends knowledge in any of the classical engineering disciplines. Course(s) can be in any technical area such as structural engineering, pavement design, environmental engineering, transportation design and analysis, soils analysis or design, hydraulics, hydrology, mechanical engineering or electrical engineering. (Technical Engineering)
11. If a thesis or major report is required for the degree, the topic selected must be applicable to public works engineering problems found in the Navy facilities business or extends knowledge in a particular technical engineering area. (Thesis/Report)
<b>Note:</b> The requirements for the public works engineering option should be satisfied by courses which emphasize the technical and administrative aspects of public works. Courses in the school of engineering should generally be taken in lieu of the more theoretical courses typically found in business administration curricula.



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This sheet indicates that:

- This degree must be completed in 9-12 months
- That the courses you take must address and meet the eleven (11) Educational Skill Requirements (ESRs) associated with this curriculum
- The ESRs indicate the knowledge and instruction that is required to be obtained by any student pursuing a degree in this curriculum field

The CEC and our officers are very fortunate to have the ability to be sent back to school to pursue advanced education! Please think about this opportunity as you begin and progress through your career.

If you have any specific questions about the CEC Graduate Education Program, please reach out to the CEC Accessions Officer that is assigned to your area!

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## ACCESSIONS TEAM CONTACT INFORMATION

### North Accessions

LT Pete DeIuliis

[peter.j.deiuliis@navy.mil](mailto:peter.j.deiuliis@navy.mil)

(847) 971-0344

### South Accessions

LT Kristina Allen

[kristina.allen@navy.mil](mailto:kristina.allen@navy.mil)

(757) 572-5855

### West Accessions

LT Bong Lee

[yi.lee@navy.mil](mailto:yi.lee@navy.mil)

(619) 778-7952

### Deputy Accessions

LT William Fletcher

[william.fletcher2@navy.mil](mailto:william.fletcher2@navy.mil)

(901) 874-3397

### Officer Community Manager

LCDR Kent Simodynes

[kent.simodynes@navy.mil](mailto:kent.simodynes@navy.mil)

(901) 874-4034